

Title (en)
DEVICE AND METHOD FOR PROCESSING DOWNLINK CONTROL INFORMATION

Title (de)
VORRICHTUNG UND VERFAHREN ZUR VERARBEITUNG VON DOWNLINK-STEUERINFORMATIONEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE TRAITEMENT D'INFORMATIONS DE COMMANDE DE LIAISON DESCENDANTE

Publication
EP 2890034 A4 20150923 (EN)

Application
EP 13842765 A 20130911

Priority
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Abstract (en)
[origin: EP2890034A1] Disclosed are an apparatus and method for processing downlink control information, applicable to a base station and comprising a downlink control information generation module and a downlink control information transmission module, wherein, the downlink control information generation module is configured to generate a downlink control information format when data transmission is performed, wherein a field of the downlink control information format carries indication information for indicating to a terminal a port used for transmitting a data DMRS and a scrambling identity number corresponding to a pilot generation sequence; and the downlink control information transmission module is configured to transmit the downlink control information format to the terminal. By indicating to a terminal a port used for transmitting a data DMRS and a scrambling identity number corresponding to a pilot generation sequence, the embodiments of the present invention solve the problem of interference between DMRSs used during multi-user data transmission.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
• [X] US 2012176884 A1 20120712 - ZHANG GUODONG [US], et al
• [X] US 2011237283 A1 20110929 - SHAN CHENG [KR], et al
• [X] CMCC: "DMRS indication in DL enhanced multiple antenna transmission", 3GPP DRAFT; R1-105273_DMRS_INDICATION_IN_DL_ENHANCED_MULTIPLE_ANTENNA_TRANSMISSION, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Xi'an; 20101011, 14 October 2010 (2010-10-14), XP050462809
• [X] ZTE: "Considerations on Downlink Control Signalling for LTE-A DL-MIMO", 3GPP DRAFT; R1-104961_DL_CONTROL_SIGNALLING, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Madrid, Spain; 20100823, 27 August 2010 (2010-08-27), XP050450245
• [X] ZTE: "Consideration on Downlink Signalling for DMRS port indication with different MU dimensions", 3GPP DRAFT; R1-101834_MU_DL_SIGNALLING_DMRS, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Beijing, china; 20100412, 7 April 2010 (2010-04-07), XP050419664
• See references of WO 2014048249A1

Cited by
EP3389204A4; US11290246B2; EP3697161A4; US10992502B2

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